

# Custom Peptide Synthesis

## Certificate of Analysis

Sequence Name: AA69.1 Scale: Research

Sequence:

Length: 19

|   |        |
|---|--------|
| N <sup>+</sup> End:                                 | Biotin |
| N <sup>+</sup> -TGR / GMS / GGR / SSR / TRK / ETQ / |        |
| L - C <sup>-</sup>                                  |        |
| C <sup>-</sup> End:                                 |        |

Molecular Weight: 2094

3

2318.35

Quantity: 20 mg 9.62x10 nmole

Form: Lyophilized powder.

Analysis:

\* HPLC

\* Amino acid

\* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

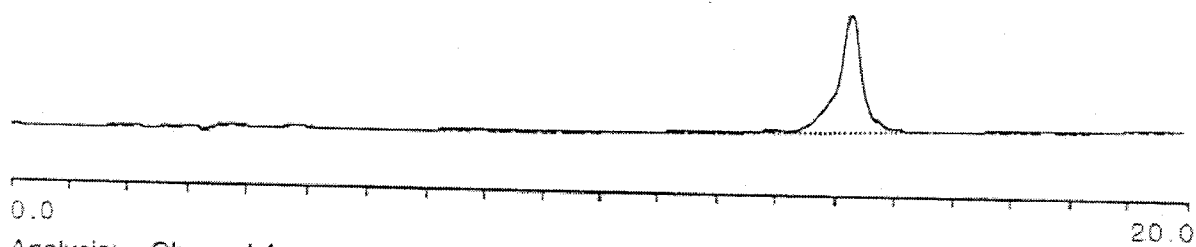
Lot No. 10017449

PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA

Genemed Synthesis, Inc.

213 East Grand Avenue, South San Francisco, CA 94080 U.S.A.  
Tel: 650-952-8193 Fax: 650-952-9540 www.genemedsyn.com

FOR RESEARCH USE ONLY. Not for diagnostic and medical applications



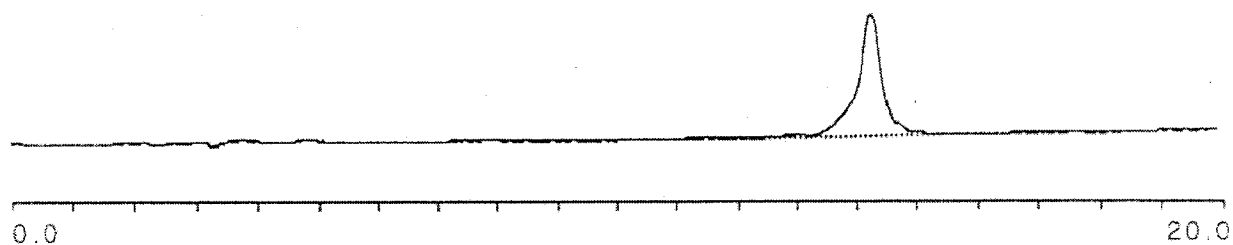
Analysis: Channel A

| Peak No.   | Time   | Type | Height(μV) | Area(μV-sec) | Area%   |
|------------|--------|------|------------|--------------|---------|
| 1          | 14.255 | N4   | 196364     | 6235630      | 100.000 |
| Total Area |        |      |            | 6235630      | 100.000 |

Data: 0-100 pepanal 006

Sample: 17449 25 $\mu$ l injected  
Column: Vydac C18 1ml/min  
Buffers: A=0.1%TFA; B=0.1%TFA in CH<sub>3</sub>CN  
Gradient: 0-100%B, 20'  
Monitor: 220nm, 1.0 AUFS

Processing File: profile#1  
Method: 0-100 pepanal  
Inject Vol:  
Sampling Int: 0.1 Seconds  
Data:



Analysis: Channel A

| Peak No.   | Time   | Type | Height( $\mu$ V) | Area( $\mu$ V-sec) | Area%          |
|------------|--------|------|------------------|--------------------|----------------|
| 1          | 14.255 | N4   | 196364           | <u>6235630</u>     | <u>100.000</u> |
| Total Area |        |      |                  | 6235630            | 100.000        |

Custom Peptide Synthesis  
Certificate of AnalysisSequence Name: AA70.1 Scale: Research

Sequence:

|  |        |
|--|--------|
| <sup>15</sup> N End:                                 | Biotin |
| <sup>15</sup> N--SGG / NRA / ROE / RLQ / RRR / ETQ / |        |
| V -- 'C'   |        |
| <sup>13</sup> C End:                                 |        |

Length: 19Molecular Weight: 2298

3

Quantity: 20 mg 7.924 mmole

Form: Lyophilized powder.

Analysis:

\* HPLC

\* Amino acid

\* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017450

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Laser : 2230

Mirror Ratio: 1.070

Scans Averaged: 61

PSD Mirror Ratio:

Pressure: 6.61e-07

Timed Ion Selector: 16.1 OFF

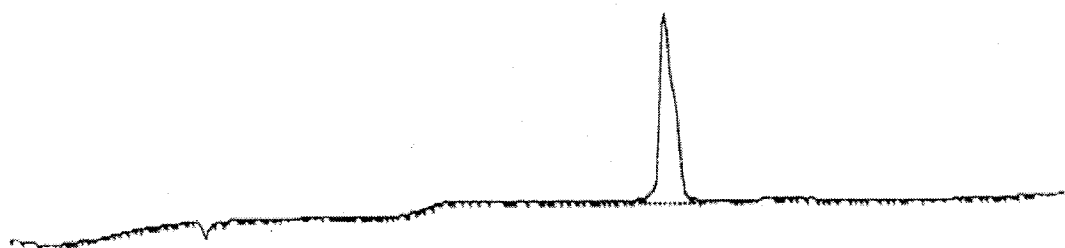
Low Mass Gate: OFF

Negative

Date:   
Data: 0-100 pepanal- -016

Sample: 17450 25 $\mu$ l injected  
Column: Vydac C18 1ml/min  
Buffers: A=0.1%TFA; B=0.1%TFA in CH<sub>3</sub>CN  
Gradient: 0-100%B, 20'  
Monitor: 220nm, 1.0 AUFS

Processing File: profile#1  
Method: 0-100 pepanal  
Inject Vol:  
Sampling Int: 0.1 Seconds  
Data:



0.0

Analysis: Channel A

| Peak No.   | Time   | Type | Height( $\mu$ V) | Area( $\mu$ V-sec) | A   |
|------------|--------|------|------------------|--------------------|-----|
| 1          | 10.780 | N    | 96091            | 1355988            | 100 |
| Total Area |        |      |                  | 1355988            | 100 |

# Custom Peptide Synthesis

## Certificate of Analysis

Sequence Name: AA72.1 Scale: Research

Sequence:

Length: 20

|  |        |
|--|--------|
| N End                                  | Biotin |
| N--AAG / GRS / ARG / GRL / QGR / RET / |        |
| AL -- 'C'                              |        |
| C End                                  |        |

Molecular Weight: 2047 2265.41 RL

Quantity: 20 mg 888 mmole

Form: Lyophilized powder.

Analysis:

\* HPLC

\* Amino acid

\* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017517

PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA

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213 East Grand Avenue, South San Francisco, CA 94080 U.S.A.

Tel: 650-952-8193 Fax: 650-952-9540 www.genemedsyn.com

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Date:

Processing File: profile#1  
Method: 0-100 pepanal  
Inject Vol:  
Sampling Int: 0.1 Seconds

Sample: 17517 25µl Injected  
Column: Vydac C18 1ml/min  
Buffer: A=0.1%TFA; B=0.1%TFA in CH3CN  
Gradient: 0-100%B, 20'  
Monitor: 220nm, 1.0 AUFS

-014

Date: 0-100



## Certificate of Analysis

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**Peptide Name:** AA80.1

**Run Number:** 17702

**Sequence:** Biotin-Gly-Arg-Trp-Thr-Gly-Arg-Ala-Met-Ser-Ala-Trp-Lys-Pro-Thr-Arg-Arg-Glu-Thr-Glu-Val-OH

**Theoretical Mass(M+H<sup>+</sup>):** ~~2603.0~~ 2600.51

**Mass Found(M+H<sup>+</sup>):** 2602.3

**Solubility:** Dissolve 1mg of peptide in 1ml Water

**Appearance:** White Powder

**HPLC Purity:** > \*N/A %

**Amount Delivered:** 100 mg \*Customer requested unpurified peptide

**Storage :** Keep Refrigerated

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Remarks: Not for Human Use. Research Purposes Only.

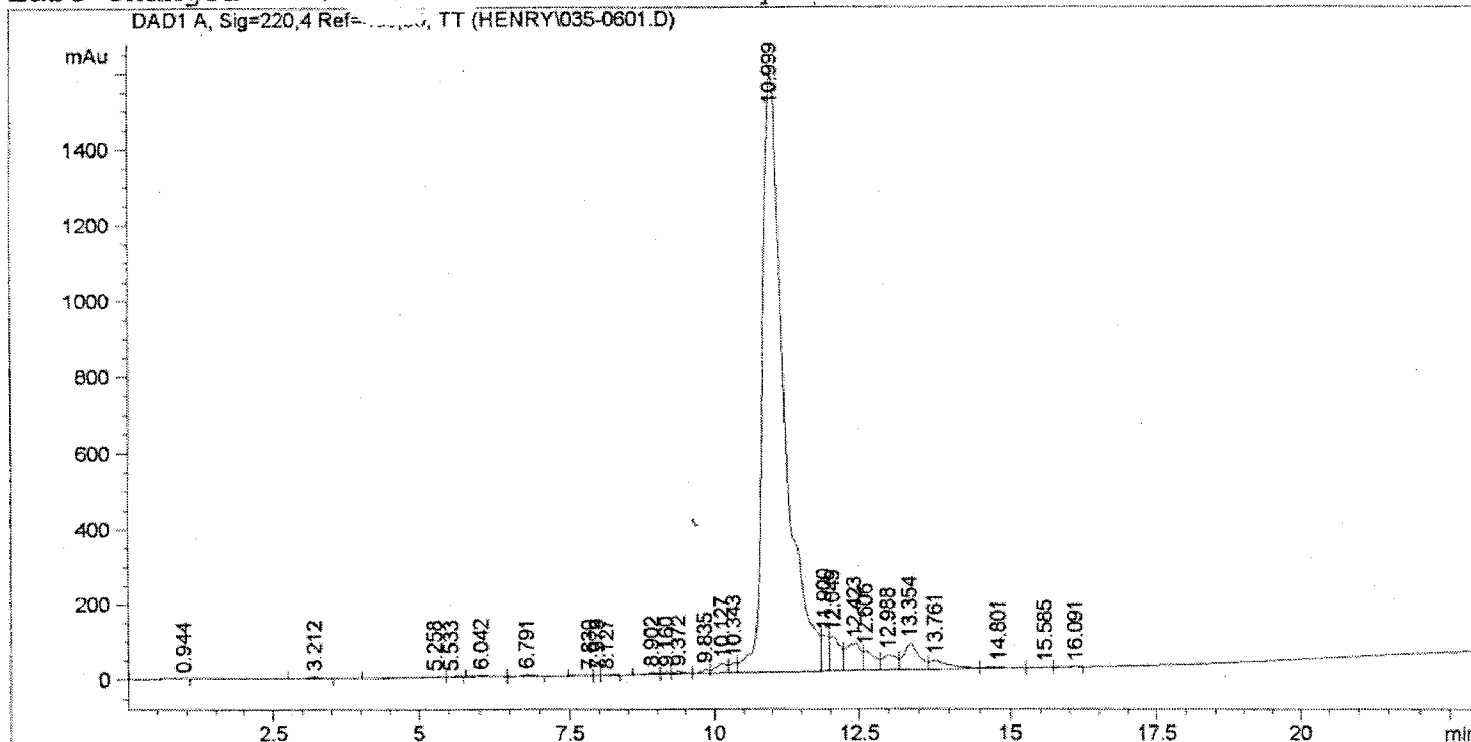
**Release By:** Jaswinder Kaur **Date:** \_\_\_\_\_

Quality Control

```

=====
Injection Date   :                               Seq. Line :    6
Sample Name     : AA80.1                         Vial       :   35
Acq. Operator   : HENRY                          Inj        :    1
                                                Inj Volume : 5 µl
Different Inj Volume from Sequence !      Actual Inj Volume : 2 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\DEF_LC.S
Method          : C:\HPCHEM\1\METHODS\0-100-20.M
Last changed    : 11:04:52 AM by HENRY
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By           : Signal
Multiplier          : 1.0000
Dilution            : 1.0000

```

Signal 1: DAD1 A, Sig=220,4 Ref=450,80, TT  
Results obtained with standard integrator!

| Peak # | RetTime [min] | Type | Width [min] | Area [mAu*s] | Height [mAu] | Area %   |
|--------|---------------|------|-------------|--------------|--------------|----------|
| 1      | 0.944         | BV   | 1.0963      | 27.31302     | 2.94576e-1   | 0.0558   |
| 2      | 3.212         | BV   | 0.2199      | 65.38581     | 4.18458      | 0.1336   |
| 3      | 5.258         | PV   | 0.3324      | 38.73496     | 1.52027      | 0.0792   |
| 4      | 5.533         | VB   | 0.1817      | 8.00819      | 7.34552e-1   | 0.0164   |
| 5      | 6.042         | BV   | 0.1638      | 48.28724     | 4.21066      | 0.0987   |
| 6      | 6.791         | PV   | 0.1581      | 51.54432     | 4.71076      | 0.1053   |
| 7      | 7.830         | PV   | 0.2492      | 13.29615     | 6.67421e-1   | 0.0272   |
| 8      | 7.979         | VV   | 0.0858      | 3.90877      | 6.33285e-1   | 7.988e-3 |
| 9      | 8.127         | VB   | 0.1281      | 7.46610      | 7.92417e-1   | 0.0153   |
| 10     | 8.902         | PV   | 0.1558      | 68.03886     | 5.92069      | 0.1390   |
| 11     | 9.160         | VV   | 0.1115      | 43.50458     | 5.49541      | 0.0889   |

# Custom Peptide Synthesis

## Certificate of Analysis

Sequence Name: \_\_\_\_\_ Scale: \_\_\_\_\_ Research

Sequence:

|   |         |
|---|---------|
| N' End:                                 | Protein |
| N'--AVG / GRP / ARG / GRL / QGR / RQT / |         |
| QV -- 'C'                               |         |
| C' End:                                 |         |

Length: 20

Molecular Weight: 2345.49

Quantity: 20 mg 0.5410 mmole

Form: Lyophilized powder.

Analysis:

\* HPLC

\* Amino acid

\* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017523

PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA

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7 ms

1007 MS

Collected:

10:31 AM Sample: 45



3500

3000

Mass (m/z)

Laser: 2190

Scans Averaged: 12

Pressure: 8.00e-07

Low Mass Gate: OFF

Mirror Ratio: 1.070

PSD Mirror Ratio:

Timed Ion Selector: 16.1 OFF

Negative Ions: OFF



Date:

Data: 0.00 pepanal- 307

Sample: 17523 25 $\mu$ l injected

Column: Vydac C18 1ml/min

Buffers: A=0.1%TFA; B=0.1%TFA in CH<sub>3</sub>CN

Gradient: 0-100%B, 20'

Monitor: 220nm, 1.0 AUFS

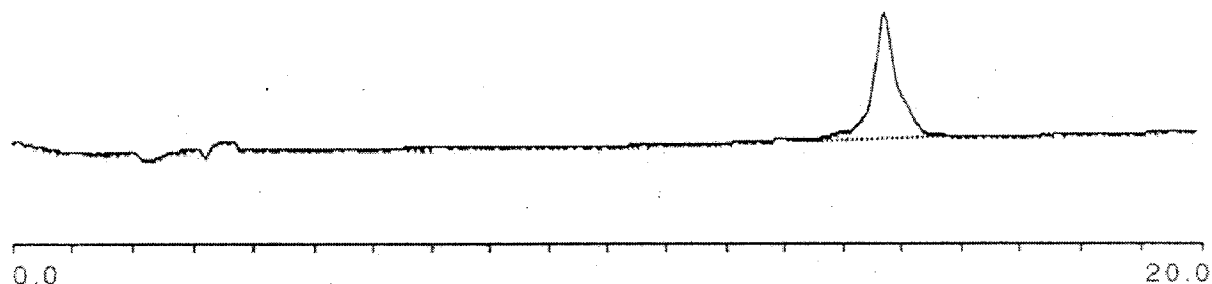
Processing File: profile#1

Method: 0-100 pepanal

Inject Vol:

Sampling Int: 0.1 Seconds

Data:



Analysis: Channel A

| Peak No.   | Time   | Type | Height( $\mu$ V) | Area( $\mu$ V-sec) | Area%   |
|------------|--------|------|------------------|--------------------|---------|
| 1          | 14.721 | N11  | 112398           | 3014595            | 100.000 |
| Total Area |        |      |                  | 3014595            | 100.000 |



## Certificate of Analysis

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Peptide Name: **AA66.1**  
Run Number: **17700**  
Sequence: **BIOTIN-Thr-Gly-Ser-Ala-Leu-Gln-Ala-Trp-Arg-His-Thr-Ser-Arg-Gln-Ala-Thr-Glu-Ser-Thr-Val-OH**

Theoretical Mass(M+H<sup>+</sup>): **2414.7**

Mass Found(M+H<sup>+</sup>): **2414.3**

Solubility: **Dissolve 1mg of peptide in 1ml Water**

Appearance: **White Powder**

HPLC Purity: **> \*N/A %**

Amount Delivered: **100 mg** \*Customer requested unpurified peptide

Storage : **Keep Refrigerated**

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Remarks: Not for Human Use. Research Purposes Only.

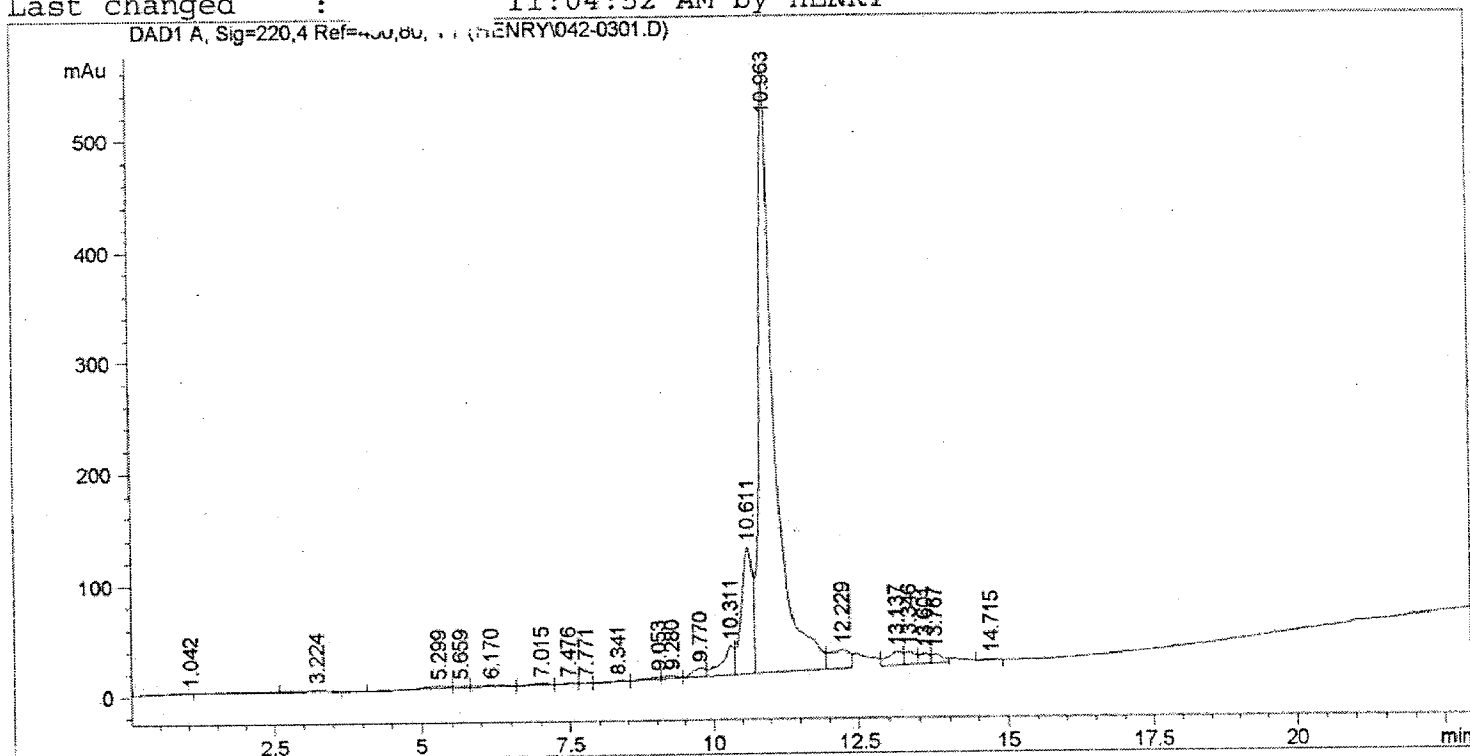
Release By: Jaswinder Kaur Date: \_\_\_\_\_  
Quality Control

Data File C:\HPCHEM\1\DATA\HENRY\042-0301.D

Sample Name: AA66.1

=====

Injection Date : 7:47:03 PM Seq. Line : 3  
Sample Name : AA66.1 Vial : 42  
Acq. Operator : HENRY Inj : 1  
Inj Volume : 5 µl  
Different Inj Volume from Sequence ! Actual Inj Volume : 2 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\DEF\_LC.S  
Method : C:\HPCHEM\1\METHODS\0-100-20.M  
Last changed : 11:04:52 AM by HENRY



=====  
Area Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: DAD1 A, Sig=220,4 Ref=450,80, TT  
Results obtained with standard integrator!

| Peak # | RetTime [min] | Type | Width [min] | Area [mAu*s] | Height [mAu] | Area % |
|--------|---------------|------|-------------|--------------|--------------|--------|
| 1      | 1.042         | BV   | 3.5187      | 29.64368     | 1.00569e-1   | 0.2185 |
| 2      | 3.224         | BV   | 0.2008      | 29.17170     | 1.88686      | 0.2151 |
| 3      | 5.299         | BV   | 0.3742      | 87.51175     | 2.88747      | 0.6452 |
| 4      | 5.659         | VV   | 0.2618      | 37.78679     | 2.13710      | 0.2786 |
| 5      | 6.170         | VV   | 0.4283      | 68.21159     | 1.91198      | 0.5029 |
| 6      | 7.015         | VV   | 0.2753      | 40.34123     | 1.83774      | 0.2974 |
| 7      | 7.476         | VV   | 0.1824      | 12.75530     | 9.23668e-1   | 0.0940 |
| 8      | 7.771         | VV   | 0.1100      | 3.22723      | 3.85199e-1   | 0.0238 |
| 9      | 8.341         | PV   | 0.1796      | 12.61311     | 1.15197      | 0.0930 |
| 10     | 9.053         | PV   | 0.2286      | 44.93953     | 2.49896      | 0.3313 |
| 11     | 9.280         | VV   | 0.2323      | 45.01051     | 2.51241      | 0.3318 |

from Page No. Start

## PRISM Matrix ELISA G Assay

Date/Initials

W. Sutton

## Reagents and Supplies

- Nunc Polysorp 96 well Immuno-plate, Nunc cat#62409-005 batch# 088642
  - PBS pH 7.4 (phosphate buffered saline, 8g NaCl, 0.29g KCl, 1.44g Na<sub>2</sub>HPO<sub>4</sub>, 0.24g KH<sub>2</sub>PO<sub>4</sub>, add H<sub>2</sub>O to 1L and pH 7.4; 0.2  $\mu$  filter) AVC lot# 97-88-2
  - Assay Buffer: 2% BSA in PBS (20g of bovine serum albumin per liter PBS, fraction V, ICN Biomedicals, cat#IC15142983 AVC lot# 97-111-3)
  - Goat anti-GST polyclonal Ab, stock 5 mg/ml, stored at 4°C, Amersham Pharmacia cat#27-4577-01, lot# 191545
  - Dilute 1:1000 in PBS, final concentration 5  $\mu$ g/ml. Date prepared \_\_\_\_\_
  - HRP-Streptavidin, 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 16153409 dilute 1:2000 into Assay buffer, final [0.5  $\mu$ g/ml]
  - Wash Buffer, 0.2% Tween 20 in 50mM Tris pH 8.0, AVC lot# 97-107-02
  - Biotinylated peptides (HPLC purified, stock solution store in -20°C freezer #7)
  - GST-PRISM proteins (stock stored @ -80°C, after 1" thaw store in -10°C freezer #7)
  - TMB (3,3',5,5', tetramethylbenzidine), ready to use, Dako cat#S1600, lot# 09160
  - 0.18M H<sub>2</sub>SO<sub>4</sub>, Sigma cat.#S1526, AVC lot# 97-85-01
  - 12-w multichannel pipettor & tips
  - 50 ml reagent reservoirs, Costar#4870
  - 50, 15 ml polypropylene conical tubes
  - Costar Transtar 96 Costar#7605
  - Transtar 96 Cartridge Costar#7610
  - Transtar Costar#
  - Cluster tubes
  - Molecular Devices microplate reader (450 & 650 nm filters)
  - SoftMax Pro software
- \*When using reagents stored at or 4°C or -20°C, remove & keep on ice

## Protocol

- Coat plate with 100  $\mu$ l of 5  $\mu$ g/ml anti-GST, O/N @ 4°C
- Dump contents of plate & out tap dry on paper towels
- Add 200  $\mu$ l Assay Buffer for 2 hrs at 4°C
- Prepare proteins and peptides in Assay Buffer
- Wash 3X with cold PBS\*
- Add proteins at 50  $\mu$ l per well, incubate 1 to 2 hrs at 4°C
- Wash 3X with cold PBS\*
- Add peptides at 50  $\mu$ l per well on ice (write time on plate)
- Incubate on ice after last peptide has been added for exactly 10 minutes
- Place at room temp for exactly 20 minutes
- Prepare HRP-Streptavidin within 10 minutes of time of use
- Promptly wash 3X with cold PBS
- Add 100  $\mu$ l per well of HRP-Streptavidin (write time on plate)
- Incubate at 4°C for exactly 20 minutes
- Turn on plate reader and prepare files (store as 0105011k1)
- Promptly wash 5X with Wash Buffer
- Add 100  $\mu$ l/well TMB substrate (write time on plate)
- Incubate in dark at room temp for a maximum of 30 minutes
- Check plate periodically; if necessary take early readings at 650 nm
- stop reaction with 100  $\mu$ l of 0.18M H<sub>2</sub>SO<sub>4</sub> 30 min. after adding TMB
- Take last reading at 450 nm soon after stopping reaction
  - Leave last PBS in wells until ready for next step, i.e. do not let plates dry out

## PEPTIDE

|   | 1                    | 2 | 3 | 4 | 5 | 6 | 1              | 2 | 3 | 4  | 5  | 6  |
|---|----------------------|---|---|---|---|---|----------------|---|---|----|----|----|
|   | 1                    | 2 | 3 | 4 | 5 | 6 | 7              | 8 | 9 | 10 | 11 | 12 |
| A | PROTEIN 1            |   |   |   |   |   |                |   |   |    |    |    |
| B | PROTEIN 2            |   |   |   |   |   |                |   |   |    |    |    |
| C | PROTEIN 3            |   |   |   |   |   |                |   |   |    |    |    |
| D | PROTEIN 4            |   |   |   |   |   |                |   |   |    |    |    |
| E | PROTEIN 5            |   |   |   |   |   |                |   |   |    |    |    |
| F | PROTEIN 6            |   |   |   |   |   |                |   |   |    |    |    |
| G | GST + LINKER CONTROL |   |   |   |   |   |                |   |   |    |    |    |
| H | STANDARD CURVE       |   |   |   |   |   | STANDARD CURVE |   |   |    |    |    |

| Column              | 1, 7        | 2, 8       | 3, 9           | 4, 10       | 5, 11        | 6, 12         |
|---------------------|-------------|------------|----------------|-------------|--------------|---------------|
| KIAA1634 (1)(75-12) | ←           |            | 0.1 $\mu$ g/ml |             |              | →             |
| DNAM-1 (AA22L)      | 100 $\mu$ M | 10 $\mu$ M | 1 $\mu$ M      | 0.1 $\mu$ M | 0.01 $\mu$ M | 0.001 $\mu$ M |

To Page No. 25

Witnessed &amp; Understood by me,

Date

Invented by

Date

Recorded by

Amber Mosters

ELISA Plate  
Arbor Vita Corp. CONFIDENTIAL

ELISA Piate  
Arbor Vita Corp. CONFIDENTIAL

Inte 9 1731

Plate # 1722

| Creation Date | Creation Time | Notebook | Page Number | Template | Wavelength |
|---------------|---------------|----------|-------------|----------|------------|
| 17-11-11      | 184           | 24       | 07          | 450      |            |

| Creation Date | Creation Time | Notebook | Page Number | Template | WaveLength |
|---------------|---------------|----------|-------------|----------|------------|
| 17-07-15      |               | 164      | 24          | 05       | 450        |

| H  | Col | Row | Protein    | Domain(s) | Prot. # | Prot. Class. | Peptide                 | Let | Position | Active Substrate | AS Comp. | OD | Col | Col | Row | Protein                 | Domain(s) | Prot. # | Prot. Class. | Peptide | Let | Position | Active Substrate | AS Comp. | OD      |
|----|-----|-----|------------|-----------|---------|--------------|-------------------------|-----|----------|------------------|----------|----|-----|-----|-----|-------------------------|-----------|---------|--------------|---------|-----|----------|------------------|----------|---------|
| 1  | 1   | 1   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.177            |          |    | 1   | 1   | 1   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.177        |         |     |          |                  |          | 0.177   |
| 2  | 1   | 2   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.219            |          |    | 2   | 2   | 2   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.219        |         |     |          |                  |          | 0.219   |
| 3  | 1   | 3   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.161            |          |    | 3   | 3   | 3   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.161        |         |     |          |                  |          | 0.161   |
| 4  | 1   | 4   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.168            |          |    | 4   | 4   | 4   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.168        |         |     |          |                  |          | 0.168   |
| 5  | 1   | 5   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.168            |          |    | 5   | 5   | 5   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.168        |         |     |          |                  |          | 0.168   |
| 6  | 1   | 6   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.168            |          |    | 6   | 6   | 6   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.168        |         |     |          |                  |          | 0.168   |
| 7  | 1   | 7   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.172            |          |    | 7   | 7   | 7   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.172        |         |     |          |                  |          | 0.172   |
| 8  | 1   | 8   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.232            |          |    | 8   | 8   | 8   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.232        |         |     |          |                  |          | 0.232   |
| 9  | 1   | 9   | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.162            |          |    | 9   | 9   | 9   | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.162        |         |     |          |                  |          | 0.162   |
| 10 | 1   | 10  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.152            |          |    | 10  | 10  | 10  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.152        |         |     |          |                  |          | 0.152   |
| 11 | 1   | 11  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.211            |          |    | 11  | 11  | 11  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.211        |         |     |          |                  |          | 0.211   |
| 12 | 1   | 12  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.243            |          |    | 12  | 12  | 12  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.243        |         |     |          |                  |          | 0.243   |
| 13 | 1   | 13  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.112            |          |    | 13  | 13  | 13  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.112        |         |     |          |                  |          | 0.112   |
| 14 | 1   | 14  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.144            |          |    | 14  | 14  | 14  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.144        |         |     |          |                  |          | 0.144   |
| 15 | 1   | 15  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.269            |          |    | 15  | 15  | 15  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.269        |         |     |          |                  |          | 0.269   |
| 16 | 1   | 16  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.088            |          |    | 16  | 16  | 16  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.088        |         |     |          |                  |          | 0.088   |
| 17 | 1   | 17  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.102            |          |    | 17  | 17  | 17  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.102        |         |     |          |                  |          | 0.102   |
| 18 | 1   | 18  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.107            |          |    | 18  | 18  | 18  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.107        |         |     |          |                  |          | 0.107   |
| 19 | 1   | 19  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.136            |          |    | 19  | 19  | 19  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.136        |         |     |          |                  |          | 0.136   |
| 20 | 1   | 20  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.279            |          |    | 20  | 20  | 20  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.279        |         |     |          |                  |          | 0.279   |
| 21 | 1   | 21  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.541            |          |    | 21  | 21  | 21  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.541        |         |     |          |                  |          | 0.541   |
| 22 | 1   | 22  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.093            |          |    | 22  | 22  | 22  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.093        |         |     |          |                  |          | 0.093   |
| 23 | 1   | 23  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.18             |          |    | 23  | 23  | 23  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.18         |         |     |          |                  |          | 0.18    |
| 24 | 1   | 24  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.106            |          |    | 24  | 24  | 24  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.106        |         |     |          |                  |          | 0.106   |
| 25 | 1   | 25  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.155            |          |    | 25  | 25  | 25  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.155        |         |     |          |                  |          | 0.155   |
| 26 | 1   | 26  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.052            |          |    | 26  | 26  | 26  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.052        |         |     |          |                  |          | 0.052   |
| 27 | 1   | 27  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.121            |          |    | 27  | 27  | 27  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.121        |         |     |          |                  |          | 0.121   |
| 28 | 1   | 28  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.236            |          |    | 28  | 28  | 28  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.236        |         |     |          |                  |          | 0.236   |
| 29 | 1   | 29  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.098            |          |    | 29  | 29  | 29  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.098        |         |     |          |                  |          | 0.098   |
| 30 | 1   | 30  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.213            |          |    | 30  | 30  | 30  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.213        |         |     |          |                  |          | 0.213   |
| 31 | 1   | 31  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.086            |          |    | 31  | 31  | 31  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.086        |         |     |          |                  |          | 0.086   |
| 32 | 1   | 32  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.136            |          |    | 32  | 32  | 32  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.136        |         |     |          |                  |          | 0.136   |
| 33 | 1   | 33  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.279            |          |    | 33  | 33  | 33  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.279        |         |     |          |                  |          | 0.279   |
| 34 | 1   | 34  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.541            |          |    | 34  | 34  | 34  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.541        |         |     |          |                  |          | 0.541   |
| 35 | 1   | 35  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.093            |          |    | 35  | 35  | 35  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.093        |         |     |          |                  |          | 0.093   |
| 36 | 1   | 36  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.18             |          |    | 36  | 36  | 36  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.18         |         |     |          |                  |          | 0.18    |
| 37 | 1   | 37  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.106            |          |    | 37  | 37  | 37  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.106        |         |     |          |                  |          | 0.106   |
| 38 | 1   | 38  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.155            |          |    | 38  | 38  | 38  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.155        |         |     |          |                  |          | 0.155   |
| 39 | 1   | 39  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.052            |          |    | 39  | 39  | 39  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.052        |         |     |          |                  |          | 0.052   |
| 40 | 1   | 40  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.121            |          |    | 40  | 40  | 40  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.121        |         |     |          |                  |          | 0.121   |
| 41 | 1   | 41  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.236            |          |    | 41  | 41  | 41  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.236        |         |     |          |                  |          | 0.236   |
| 42 | 1   | 42  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.098            |          |    | 42  | 42  | 42  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.098        |         |     |          |                  |          | 0.098   |
| 43 | 1   | 43  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.213            |          |    | 43  | 43  | 43  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.213        |         |     |          |                  |          | 0.213   |
| 44 | 1   | 44  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.086            |          |    | 44  | 44  | 44  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.086        |         |     |          |                  |          | 0.086   |
| 45 | 1   | 45  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.136            |          |    | 45  | 45  | 45  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.136        |         |     |          |                  |          | 0.136   |
| 46 | 1   | 46  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.279            |          |    | 46  | 46  | 46  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.279        |         |     |          |                  |          | 0.279   |
| 47 | 1   | 47  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.541            |          |    | 47  | 47  | 47  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.541        |         |     |          |                  |          | 0.541   |
| 48 | 1   | 48  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.093            |          |    | 48  | 48  | 48  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.093        |         |     |          |                  |          | 0.093   |
| 49 | 1   | 49  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.18             |          |    | 49  | 49  | 49  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.18         |         |     |          |                  |          | 0.18    |
| 50 | 1   | 50  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.106            |          |    | 50  | 50  | 50  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.106        |         |     |          |                  |          | 0.106   |
| 51 | 1   | 51  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.155            |          |    | 51  | 51  | 51  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.155        |         |     |          |                  |          | 0.155   |
| 52 | 1   | 52  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.052            |          |    | 52  | 52  | 52  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.052        |         |     |          |                  |          | 0.052   |
| 53 | 1   | 53  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.121            |          |    | 53  | 53  | 53  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.121        |         |     |          |                  |          | 0.121   |
| 54 | 1   | 54  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.236            |          |    | 54  | 54  | 54  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.236        |         |     |          |                  |          | 0.236   |
| 55 | 1   | 55  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.098            |          |    | 55  | 55  | 55  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.098        |         |     |          |                  |          | 0.098   |
| 56 | 1   | 56  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.213            |          |    | 56  | 56  | 56  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.213        |         |     |          |                  |          | 0.213   |
| 57 | 1   | 57  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.086            |          |    | 57  | 57  | 57  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.086        |         |     |          |                  |          | 0.086   |
| 58 | 1   | 58  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.136            |          |    | 58  | 58  | 58  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.136        |         |     |          |                  |          | 0.136   |
| 59 | 1   | 59  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.279            |          |    | 59  | 59  | 59  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.279        |         |     |          |                  |          | 0.279   |
| 60 | 1   | 60  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.541            |          |    | 60  | 60  | 60  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.541        |         |     |          |                  |          | 0.541   |
| 61 | 1   | 61  | 7800AA1854 | 2         | 1       | 5            | AA07.VMPV ES 67 (yeast) | 877 | 10       | 0.093            |          |    | 61  | 61  | 61  | AA07.VMPV ES 67 (yeast) | 877       | 10      | 0.093        |         |     |          |                  |          | 0.093</ |

To Page No. 29

**Witnessed & Understood by me,**

**Date**

**Invented by**

**Date**

**Recorded by**

From Page No. X

## PRISM Matrix ELISA G Assay

Date/Initials 8/7/01 KC.BK

## Reagents and Supplies

- Nunc Polysorp 96 well immuno-plate, Nunc cat#62409-005 batch# 045987
  - PBS pH 7.4 (phosphate buffered saline, 8g NaCl, 0.29g KCl, 1.44g Na<sub>2</sub>HPO<sub>4</sub>, 0.24g KH<sub>2</sub>PO<sub>4</sub>, add H<sub>2</sub>O to 1L and pH 7.4; 0.2 µ filter) AVC lot# 97-93-04
  - Assay Buffer: 2% BSA in PBS (20g of bovine serum albumin per liter PBS, fraction V, ICN Biomedicals, cat#IC15142983 AVC lot# 97-100-02
  - Goat anti-GST polyclonal Ab, stock 5 mg/ml, stored at 4°C, Amersham Pharmacia cat#27-4577-01, lot# 191545
  - Dilute 1:1000 in PBS, final concentration 5 µg/ml. Date prepared: 8/6/01
  - HRP-Streptavidin, 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 10102403 dilute 1:2000 into Assay buffer, final [0.5 µg/ml]
  - Wash Buffer, 0.2% Tween 20 in 50mM Tris pH 8.0, AVC lot# 97-96-02
  - Biotinylated peptides (HPLC purified, stock solution store in -20°C freezer #7)
  - GST-PRISM proteins (stock stored @ -80°C, after 1" thaw store in -10°C freezer #7)
  - TMB (3,3',5,5', tetramethylbenzidine), ready to use, Dako cat#S1600, lot# 07160
  - 0.18M H<sub>2</sub>SO<sub>4</sub>, Sigma cat.#S1526, AVC lot# 97-96-03
  - 12-w multichannel pipettor & tips
  - 50 ml reagent reservoirs, Costar#4870
  - 50, 15 ml polypropylene conical tubes
  - Costar Transtar 96 Costar#7605
  - Transtar 96 Cartridge Costar#7610
  - Transtar Costar#
  - Cluster tubes
  - Molecular Devices microplate reader (450 & 650 nm filters)
  - SoftMax Pro software
- \*When using reagents stored at or 4°C or -20°C, remove & keep on ice

## Protocol

- Coat plate with 100 µl of 5 µg/ml anti-GST, O/N @ 4°C
- Dump contents of plate & out tap dry on paper towels
- Add 200 µl Assay Buffer for 2 hrs at 4°C
- Prepare proteins and peptides in Assay Buffer
- Wash 3X with cold PBS\*
- Add proteins at 50 µl per well, incubate 1 to 2 hrs at 4°C
- Wash 3X with cold PBS\*
- Add peptides at 50 µl per well on ice (write time on plate)
- Incubate on ice after last peptide has been added for exactly 10 minutes
- Place at room temp for exactly 20 minutes
- Prepare HRP-Streptavidin within 10 minutes of time of use
- Promptly wash 3X with cold PBS
- Add 100 µl per well of HRP-Streptavidin (write time on plate)
- Incubate at 4°C for exactly 20 minutes
- Turn on plate reader and prepare files (store as 0105011kt1)
- Promptly wash 5X with Wash Buffer
- Add 100 µl/well TMB substrate (write time on plate)
- Incubate in dark at room temp for a maximum of 30 minutes
- Check plate periodically; if necessary take early readings at 650 nm
- stop reaction with 100 µl of 0.18M H<sub>2</sub>SO<sub>4</sub> 30 min. after adding TMB
- Take last reading at 450 nm soon after stopping reaction
  - Leave last PBS in wells until ready for next step, i.e. do not let plates dry out

## PEPTIDE

|   | 1                    | 2 | 3 | 4 | 5 | 6 | 1              | 2 | 3 | 4  | 5  | 6  |
|---|----------------------|---|---|---|---|---|----------------|---|---|----|----|----|
|   | 1                    | 2 | 3 | 4 | 5 | 6 | 7              | 8 | 9 | 10 | 11 | 12 |
| A | PROTEIN 1            |   |   |   |   |   |                |   |   |    |    |    |
| B | PROTEIN 2            |   |   |   |   |   |                |   |   |    |    |    |
| C | PROTEIN 3            |   |   |   |   |   |                |   |   |    |    |    |
| D | PROTEIN 4            |   |   |   |   |   |                |   |   |    |    |    |
| E | PROTEIN 5            |   |   |   |   |   |                |   |   |    |    |    |
| F | PROTEIN 6            |   |   |   |   |   |                |   |   |    |    |    |
| G | GST + LINKER CONTROL |   |   |   |   |   |                |   |   |    |    |    |
| H | STANDARD CURVE       |   |   |   |   |   | STANDARD CURVE |   |   |    |    |    |

## Standard Curve

| Column          | 1, 7    | 2, 8    | 3, 9     | 4, 10    | 5, 11    | 6, 12    |
|-----------------|---------|---------|----------|----------|----------|----------|
| PSD95(1) #143.1 | 5 µg/ml |         |          |          |          |          |
| Tax AA56L       | 5 µM    | 1.19 µM | 0.283 µM | 0.067 µM | 0.016 µM | 0.004 µM |

+86\*

183 x 6

36.2 } → Neurotrophin - differently made  
36.3 } biotinylated peptides for comparison  
80.1 HPV 26  
215 HIV  
200 Serotonin  
258 Noradrenaline

To Page No. 8

Witnessed &amp; Understood by me,

Marjorie Jones

Date

Invented by

Recorded by

K. M. Jones

Date



Page No. X

## PRISM Matrix ELISA G Assay

Initials KC, BK

## Reagents and Supplies

Nunc Polysorp 96 well Immuno-plate, Nunc cat#62409-005 batch# 045987  
 PBS pH 7.4 (phosphate buffered saline, 8g NaCl, 0.29g KCl, 1.44g Na<sub>2</sub>HPO<sub>4</sub>, 0.24g KH<sub>2</sub>PO<sub>4</sub>, add H<sub>2</sub>O to 1L and pH 7.4; 0.2 µ filter) AVC lot# 97-93-04  
 Assay Buffer: 2% BSA in PBS (20g of bovine serum albumin per liter PBS, fraction V, CN Biomedicals, cat#IC15142983 AVC lot# 97-94-01-04  
 Goat anti-GST polyclonal Ab, stock 5 mg/ml, stored at 4°C, Amersham Pharmacia cat#27-4577-01, lot# 191545  
 • Dilute 1:1000 in PBS, final concentration 5 µg/ml. Date prepared \_\_\_\_\_  
 HRP-Streptavidin, 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 1062409  
 Dilute 1:2000 into Assay buffer, final [0.5 µg/ml]  
 Wash Buffer, 0.2% Tween 20 in 50mM Tris pH 8.0, AVC lot# 97-87-3  
 Biotinylated peptides (HPLC purified, stock solution store in -20°C freezer #7)  
 GST-PRISM proteins (stock stored @ -80°C, after 1<sup>st</sup> thaw store in -10°C freezer #7)  
 TMB (3,3',5,5', tetramethylbenzidine), ready to use, Dako cat#S1600, lot# 07160  
 0.18M H<sub>2</sub>SO<sub>4</sub>, Sigma cat.#S1526, AVC lot# 97-85-01  
 12-w multichannel pipettor & tips  
 50 ml reagent reservoirs, Costar#4870  
 50, 15 ml polypropylene conical tubes  
 Costar Transtar 96 Costar#7605  
 Transtar 96 Cartridge Costar#7610  
 Transtar Costar#  
 Cluster tubes  
 Molecular Devices microplate reader (450 & 650 nm filters)  
 SoftMax Pro software  
 Reagents stored at 4°C or -20°C, remove & keep on ice

## Protocol

Coat plate with 100 µl of 5 µg/ml anti-GST, O/N @ 4°C  
 Dump contents of plate & out tap dry on paper towels  
 Add 200 µl Assay Buffer for 2 hrs at 4°C  
 Prepare proteins and peptides in Assay Buffer  
 Wash 3X with cold PBS\*  
 Add proteins at 50 µl per well, incubate 1 to 2 hrs at 4°C  
 Wash 3X with cold PBS\*  
 Add peptides at 50 µl per well on ice (write time on plate)  
 Incubate on ice after last peptide has been added for exactly 10 minutes  
 Place at room temp for exactly 20 minutes  
 Prepare HRP-Streptavidin within 10 minutes of time of use  
 Promptly wash 3X with cold PBS  
 Add 100 µl per well of HRP-Streptavidin (write time on plate)  
 Incubate at 4°C for exactly 20 minutes  
 Turn on plate reader and prepare files (store as 0105011kt1)  
 Promptly wash 5X with Wash Buffer  
 Add 100 µl/well TMB substrate (write time on plate)  
 Incubate in dark at room temp for a maximum of 30 minutes  
 Check plate periodically; if necessary take early readings at 650 nm  
 Stop reaction with 100 µl of 0.18M H<sub>2</sub>SO<sub>4</sub>, 30 min. after adding TMB  
 Take last reading at 450 nm soon after stopping reaction  
 • Leave last PBS in wells until ready for next step,  
 i.e. do not let plates dry out

## PEPTIDE

|   | 1                    | 2 | 3 | 4 | 5 | 6 | 1              | 2 | 3 | 4  | 5  | 6  |
|---|----------------------|---|---|---|---|---|----------------|---|---|----|----|----|
|   | 1                    | 2 | 3 | 4 | 5 | 6 | 7              | 8 | 9 | 10 | 11 | 12 |
| A | PROTEIN 1            |   |   |   |   |   |                |   |   |    |    |    |
| B | PROTEIN 2            |   |   |   |   |   |                |   |   |    |    |    |
| C | PROTEIN 3            |   |   |   |   |   |                |   |   |    |    |    |
| D | PROTEIN 4            |   |   |   |   |   |                |   |   |    |    |    |
| E | PROTEIN 5            |   |   |   |   |   |                |   |   |    |    |    |
| F | PROTEIN 6            |   |   |   |   |   |                |   |   |    |    |    |
| G | GST + LINKER CONTROL |   |   |   |   |   |                |   |   |    |    |    |
| H | STANDARD CURVE       |   |   |   |   |   | STANDARD CURVE |   |   |    |    |    |

## Standard Curve

| Column          | 1, 7   | 2, 8   | 3, 9    | 4, 10   | 5, 11   | 6, 12   |
|-----------------|--------|--------|---------|---------|---------|---------|
| PSD95(1) #143.1 | 5µg/ml |        |         |         |         |         |
| Tax AA56L       | 5µM    | 1.19µM | 0.283µM | 0.067µM | 0.016µM | 0.004µM |

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Witnessed &amp; Understood by me,

Date

Invented by

Date

*Margaret Jones*

Recorded by

*Lee M. Jones*



2000

| Creation Date | Creation Time | Notebook | Page Num. | Template | Wavelength |
|---------------|---------------|----------|-----------|----------|------------|
| 17.10.14      | 187           | 17       | 08        | 450      |            |

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Date \_\_\_\_\_

Recorded by  
*The Genuine Belson*

## BIOGRAPHICAL SKETCH OF PETER S. LU, M.D.

|   |   |         |                         |
|---|---|---------|-------------------------|
| NAME<br>Lu, Peter Sin-yi  | POSITION TITLE<br>President/CEO<br>Arbor Vita Corporation |         |                         |
| eRA COMMONS USER NAME   |   |         |                         |
| EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i> |   |         |                         |
| INSTITUTION AND LOCATION  | DEGREE<br><i>(if applicable)</i>                          | YEAR(s) | FIELD OF STUDY          |
| California Institute of Technology  | B.S.  | 1977    | Biology                 |
| University of Washington  | M.S.  | 1980    | Microbiology/Immunology |
| University of Washington Medical School   | M.D.  | 1988    | Medicine                |

### A. Positions and honors.

#### Positions and Employment

1988-1989 Medical intern, Internal Medicine; University of Washington Medical School  
1989-1994 Resident and research fellow, Department of Dermatology; Stanford University  
1992-1998 Post-Doctoral fellow, Howard Hughes Medical Institute; Stanford University  
1992-1998 Clinical Instructor, Attending, Psoriasis Day Care Center, Department of Dermatology, Stanford Medical School  
1995-present Director, Stanford Papua New Guinea Medical Project  
1998-present Founder, President, CEO, Arbor Vita Corporation  
2002-present Medical Director, Community Pregnancy Center, STD clinic

#### Research Experience and Appointments

1974-1976 Mechanism of antibody diversity; California Institute of Technology; advisor Leroy Hood, M.D./Ph.D.  
1977-1978 Gene regulation in development; California Institute of Technology; advisor Eric Davidson, Ph.D.  
1978-1981 Role of idiotypic network in tumor immunity; University of Washington; advisor Robert Nowinski, Ph.D.  
1981-1984 Eukaryotic gene regulation; University of Washington; advisor Harold Weintraub, M.D./Ph.D.  
1992-1998 Adhesion molecules in T cell activation; Howard Hughes Medical Institute, Stanford University; advisor Mark M. Davis, Ph.D.

#### Honors

1988 Alpha Omega Alpha, University of Washington  
1991 Resident Teaching Award, Stanford Medical School  
1991 Paul H. Jacobs Award, Stanford Medical School  
2001-Present Principal Investigator of Numerous Grants from the National Institutes of Health

### B. Peer-reviewed publications (in chronological order).

Murata, Y., Martin, C. B., Ikenoue, T., Lu, P. S. (1978). Antepartum evaluation of the pre-ejection period of the fetal cardiac cycle. Am. J. Ob/Gyn. 132: 278-284.

Kindel, S., Lu, P. S., Smoller, B. (1994). Intravascular crystals provide a diagnostic clue in the diagnosis of monoclonal cryoglobulinemia. J. Eur. Acad. Dermatol. Venereol. 3: 185-188.

Messika, E. J., Lu, P. S., Sung, Y. J., Yao, T., Chi, J. T., Chien, Y. H., Davis, M. M. (1998). Differential effect of B lymphocyte-induced maturation protein (Blimp-1) expression on cell fate during B cell development. J. Exp. Med. 188: 135-146